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MEAN WELL

SWITCHING POWER SUPPLY

ISO-9001 CERTIFIED
MANUFACTURER

QP-375 SERIES

Jameco Part Number
220273
(QP-375-24B)

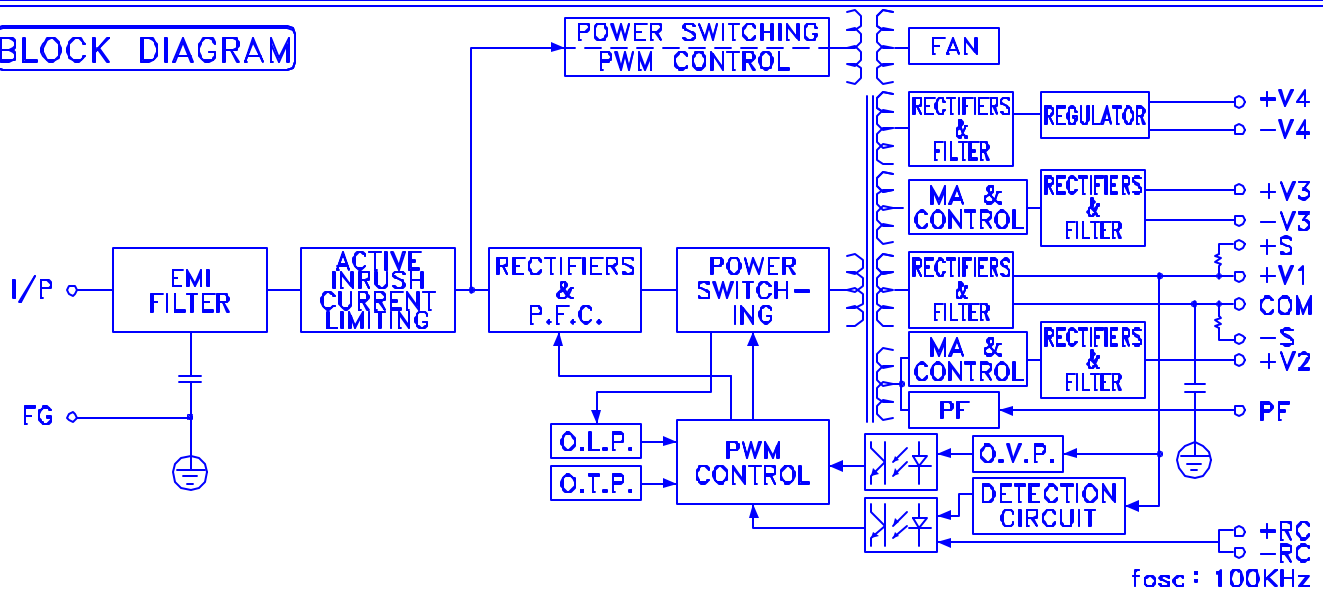
.LOW COST, HIGH RELIABILITY
.105° C OUTPUT CAPACITOR
.INTERNATIONAL AC INPUT RANGE
.HIGH EFFICIENCY, LOW WORKING TEMPERATURE
.SOFT-START CIRCUIT, LIMITING AC SURGE CURRENT
.SHORT CIRCUIT, OVERLOAD, OVER VOLTAGE PROTECTED
.ISOLATE CH3 & CH4 DC OUTPUT
.MAIN OUTPUT REMOTE SENSE
.POWER GOOD AND FAIL SIGNAL

MODEL	QP-375-24B				QP-375-24C			
	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4
DC OUTPUT VOLTAGE	+24V	+5V	12V	12V	+24V	+5V	15V	15V
OUTPUT V. TOLERANCE	± 1%	± 1%	± 1%	± 1%	± 1%	± 1%	± 1%	± 1%
OUTPUT RATED CURRENT	10A	10A	4A	4A	10A	10A	4A	4A
OUTPUT CURRENT RANGE	1-10A	0-10A	0-4A	0-4A	1-10A	0-10A	0-4A	0-4A
PEAK CURRENT	10A	16A	4A	4A	10A	16A	4A	4A
RIPPLE & NOISE (p-p)	240mV	50mV	120mV	120mV	240mV	50mV	150mV	150mV
LINE REGULATION	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%
LOAD REGULATION	± 0.8%	± 0.8%	± 0.8%	± 0.8%	± 0.8%	± 0.8%	± 0.8%	± 0.8%
MAX. DC OUTPUT POWER	386W				410W			
EFFICIENCY	78%				80%			
DC VOLTAGE ADJ.	CH1,2,3,4: ± 10%				CH1,2,3,4: ± 10%			
INPUT VOLTAGE RANGE	85~264VAC 47~63Hz; 120~370VDC							
AC CURRENT	6A/115V 3A/230V							
INRUSH CURRENT	COLD START 45A							
LEAKAGE CURRENT	<2mA/240VAC							
OVERLOAD PROTECTION	105%~135% TYPE:PULSE BY PULSE RESET:AUTO RECOVERY							
OVER VOLTAGE PROTECTION	CH1:27.6~32.4V TYPE:SHUTDOWN							
OVER TEMP. PROTECTION	80˚C~±5˚C (TSW1)TYPE:SHUTDOWN RESET:AUTO RECOVERY							
TEMP. COEFFICIENT	± 0.03% / ˚C (0~50˚C)							
SETUP, RISE, HOLD UP TIME	800ms, 50ms, 20ms							
POWER FACTOR	PF>0.95/230VAC, PF>0.98/115VAC							
REMOTE CONTROL	RC+/RC-:0~0.8V POWER ON ; 4V~10V POWER OFF							
OUTPUT GOOD/INPUT POWER FAIL	10ms/1ms							
VIBRATION	10~500Hz, 2G 10min./1cycle, PERIOD FOR 60min. EACH AXES							
WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC							
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:500VDC / 100M Ohms							
WORKING TEMP., HUMIDITY	-10˚C~+60˚C (REFER TO OUTPUT DERATING CURVE), 20%~90% RH							
STORAGE TEMP., HUMIDITY	-20˚C~+85˚C, 10%~95% RH							
DIMENSION	278*127*63.5mm							
WEIGHT	2.3Kgs							
SAFETY STANDARDS	UL1950, TUV EN60950 APPROVED							
EMC STANDARDS	CISPR22(EN55022) CLASS B, EN61000-4-2,3,4,5,6,8,11; ENV50204; EN61000-3-2,3 VERIFICATION							

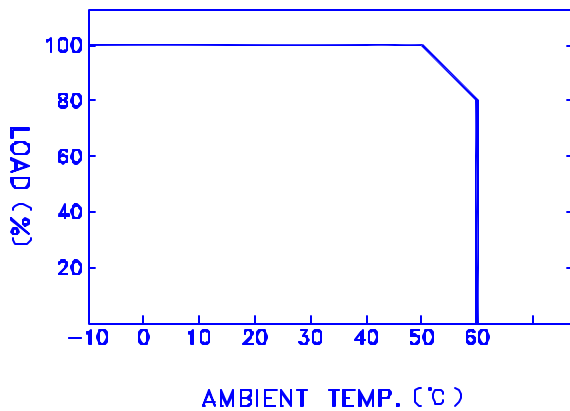
NOTE : 1.ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25° C 70% RH. AMBIENT.
2.TOLERANCE : INCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.
3.RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
4.LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
5.LOAD REGULATION IS MEASURED FROM 20% TO 100% RATED LOAD, AND OTHER OUTPUT AT 60% RATED LOAD.
6.PEAK CURRENT CAN NOT EXCEED 60 SEC.
7.EACH OUTPUT PROVIDE UP TO MAXIMUM CURRENT, BUT TATAL LOAD CAN NOT EXCEED MAX. OUTPUT POWER.
8.ISOLATED CH3 & CH4 MAYBE SERIES CONNECTED OR CAN BE USED AS POSITIVE OR NEGATIVE OUTPUTS.

2002-09-05

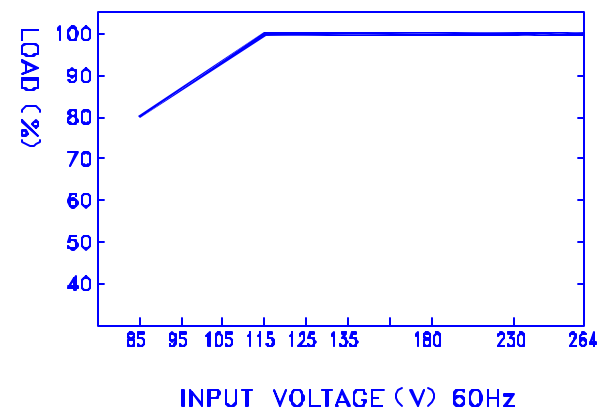
BLOCK DIAGRAM



OUTPUT DERATING VS T_a



OUTPUT DERATING VS INPUT VOLTAGE



DIMENSION (mm)

☒ CASE : 919C

☒ I/P TERMINAL TB1 PIN NO. ASSIGNMENT

☒ PIN 1,2 : AC INPUT

☒ PIN 3 : FG $\perp$

☒ O/P TERMINAL TB2 PIN NO. ASSIGNMENT

☒ PIN 1,2 : +V1

☒ PIN 3,4,5 : COM(V1 AND V2)

☒ PIN 6 : +V2

☒ PIN 7 : +V3

☒ PIN 8 : -V3

☒ PIN 9 : +V4

☒ PIN 10 : -V4

☒ CONNECTOR CN62 PIN NO. ASSIGNMENT

☒ JST S6B-XH Uses XHP-6 Housing

☒ PIN 1 : PF(POWER GOOD/FAIL SIGNAL)

☒ PIN 2 : GND

☒ PIN 3 : RS-

☒ PIN 4 : RS+

☒ PIN 5 : RC-

☒ PIN 6 : RC+

